

STATEMENT OF PRACTICAL TREATMENT

FIRST AID TREATMENT: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to parathion and describe his condition.

IF BREATHING HAS STOPPED: Start artificial respiration immediately and maintain until doctor sees victim.

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or if available, by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

IN CASE OF CONTACT: Immediately flush eyes or skin with plenty of water while removing contaminated clothing and shoes. See doctor immediately. See additional PRECAUTIONARY STATEMENTS on side panel.

**PRECAUTIONARY STATEMENTS
DANGER**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS



CAN KILL IF SWALLOWED: This product can kill you if swallowed. Even in small amounts, spray mist may be fatal if swallowed.



CAN KILL BY SKIN CONTACT: This product can kill you if touched by hands or spilled or splashed on skin, in eyes or on clothing. (liquid goes through clothes).



CAN KILL IF BREATHED: This product can kill you if vapors or spray mist are breathed.

ACCEPTED
DEC 16 1982
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 4787-15

RESTRICTED USE PESTICIDE to very high acute toxicity to Humans and Birds

For retail sale only to certified commercial aerial applicators or persons under their direct supervision. For use only by certified commercial aerial applicators. Direct supervision for this product is defined as the certified commercial applicator being physically present during mixing, loading, repair and cleaning of application equipment. Certified aerial applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

PARATHION 4 EC

★ For use only on alfalfa, barley, corn, cotton, sorghum, soybeans, sunflower and wheat.

ACTIVE INGREDIENTS:

| | |
|--|--------|
| *Parathion (O,O-dimethyl O-p-nitrophenyl phosphorothioate) | 47.8% |
| INERT INGREDIENTS | 52.2% |
| | 100.0% |

*Ethyl Parathion

Product contains 4 pounds of parathion per gallon

**STOP - READ LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

**DANGER
PELIGRO**



**POISON
VENENO**

PRECAUCION AL USUARIO Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

EPA Reg. No. 4787-15 EPA Est No. 4787-DN-1
Manufactured by A/S Cheminova - Lemvig, Denmark

NET CONTENTS: _____ GAL.

WORK SAFETY RULES

The National Pesticide Telecommunications Network is available for recommendation regarding poisoning management, emergency treatment and other information regarding the toxicity of parathion. The toll free number for the National Pesticide Telecommunication Network is 1-800-858-7378. If handled indoors, provide mechanical exhaust ventilation. Keep all unprotected persons, children, livestock and pets away from treated areas or where there is danger of drift. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See First Aid (PRACTICAL TREATMENT) Section.

IMPORTANT! If pesticide comes in contact with skin, wash off with soap and water and contact a physician immediately. Also wash hands, face and arms with soap and water before smoking, eating, drinking or toileting.

AFTER WORK: Before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear only clean clothing when leaving the job. Do not wear contaminated clothing. Personal clothing worn during work must be stored and laundered separately from protective clothing and household articles. Store protective clothing separately from personal clothing. Clean or launder protective clothing after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirators. Protective clothing and protective equipment heavily contaminated or drenched with parathion must be destroyed according to State and local regulations. Heavily contaminated or drenched clothing cannot be adequately decontaminated. During aerial application, human flaggers are prohibited.

POISON SIGNS (Symptoms)

Parathion is a very dangerous poison. It rapidly enters the body on contact with all skin surfaces and eyes. Clothing wet with this material must be removed immediately. Exposed persons must receive prompt medical treatment or they may die.

Some of the signs and symptoms of poisoning are: Headache, nausea, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.

NOTE TO PHYSICIAN

Antidote: Administer atropine sulfate in large doses two to four mg. intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is also antidotal and may be administered in conjunction with atropine. DO NOT GIVE MORPHINE OR TRANQUILIZERS. Parathion is a strong cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. At first sign of pulmonary edema the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and fatal relapses have been reported after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to fish and wildlife. Fish and other aquatic organisms in treated areas may be killed. Do not apply directly to water or wetlands (swamps, marshes, bogs and potholes). Run-off and drift from target areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters. This product is extremely toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product through any type of irrigation system.

This product may not be applied on any crop other than alfalfa, barley, corn, cotton, sorghum, soybeans, sunflower and wheat. Any treated crop may be harvested only by mechanical means. Hand harvesting of a treated crop is prohibited.

REENTRY STATEMENT

General Reentry Limitation: While an area is being treated with this product and during the first three days after treatment (six days after treatment if the crop treated is corn) or any longer period of time prescribed by State law or regulation, no person may enter or remain in the treated area or within 100 feet of the treated area.

Exception: After four (4) hours have passed since the end of the application, a person may enter an area under reentry restrictions to perform scouting or irrigation-related work in accordance with the following requirements:

No person shall remain in any area under reentry restrictions for a total of more than 1 hour in any 24-hour period.

Before entering the treated area, the person must have read the product labeling or have been informed, in a language that the person can understand, of all the requirements of the product's labeling related to human hazards or precautions, first aid, symptoms of poisoning, personal protective equipment specified for early entry, and any other labeling requirements related to safe use.

The person must wear personal protective equipment consisting of a cotton or other fabric coverall worn over a long-sleeved shirt and long pants, chemical resistant boots, and chemical resistant gloves, and shall take appropriate measures to prevent heat-related illness.

The person must carry an eye-flush dispenser containing at least one pint of water.

A reasonably accessible decontamination site must be available with adequate supplies of potable water for washing, soap, and single-use towels. After restricted reentry activity, the person must be provided soap, clean towels, and a sufficient amount of potable water for washing and must wash thoroughly after removing personal protective equipment.

All personal protective equipment worn during restricted reentry must be laundered separately and may not be worn home.

Posting of Treated Areas: Treated areas shall be posted with signs at all usual points of entry or in the corners of the treated areas affording maximum visibility. Written warnings must include the following information: **DANGER: Area treated with Parathion on (date). Do not enter.** Consult your State Agricultural Extension Service or Experiment Station regarding posting treated areas.

LIMITS ON APPLICATION

Aerial Application Only. This product may be applied aerially and only by a certified commercial applicator as defined in FIFRA Sec. 2(e)(3).

Areas Where Application is Prohibited: This product may not be applied within 100 feet of buildings, public roads or bodies of water. Parathion may not be applied within 100 feet of property lines unless the operator of the adjacent property has given prior written consent to the application and has been informed of the timing of the application and the appropriate reentry requirements.

Drift Reduction Measures: Do not apply this product if the wind exceeds 10 miles per hour. Apply only from nozzles located not more than 75% of the distance from the center of the aircraft to the wing tip or helicopter rotor tip.

Notification to Property Operator: A certified commercial applicator shall not apply this product to any property unless the applicator has notified the operator in writing no more than 12 months before the date of the application of the following: the requirement that crops treated with parathion be harvested mechanically; the appropriate reentry interval and the requirements concerning reentry set forth on this label; and the incident reporting requirements set forth on this label.

PROTECTION OF APPLICATORS, MIXER-LOADERS, AND MAINTENANCE PERSONNEL

Applicator Protection: The cockpit of the aircraft used to apply this product must be fully enclosed while the product is being applied. No pilot may apply this product if the pilot has earlier during the day of application performed any mixing/loading activities (other than acting as an observer) involving any pesticide product containing parathion.

Maintenance Personnel Protection: The following protective clothing and equipment must be worn during repair, cleaning of application equipment and disposal of pesticide: waterproof suit of one or two pieces covering all parts of the body except the head, hands and feet; heavy-duty chemical resistant gloves; chemical resistant shoes (or chemical resistant shoe coverings or chemical resistant boots); goggles or face shield; hood or wide-brimmed hat; NIOSH approved respirator.

Mixer-Loader Protection: An observer must be present during all mixing/loading activities in order to furnish assistance in the event of an accident. The observer may not act as mixer/loader.

Any person involved in mixing/loading activities (other than the observer) must wear a cotton or other fabric coverall worn over a long-sleeved shirt and long pants, chemical

resistant boots and gloves, and when the mixing loading system is pressurized, a chemically resistant apron and a face shield or goggles. The liquid pesticide must be removed from its original shipping container and transferred through connecting hoses, pipes, and/or couplings that are sufficiently tight to prevent handlers or other persons from contacting the parathion concentrate, use dilution, or rinsate solution. A complete seal by dry break or screw-on coupling to the opening of the original container shall be required.

All hoses, piping, tanks, and connections used in the system shall be of a type appropriate for the product being used and the pressure and vacuum levels involved. The system shall be designed and operated so that the concentrated form of this product is not under more than 25 psi of pressure at any point in the system beyond or downstream from a pump producing positive pressure. The closed system must be adequate to make necessary measurements of the product being used. External sight gauges shall be equipped with valves so that the flow of pesticide to the sight gauge can be shut off in case of breakage or leakage from the gauge.

Shut-off devices must be installed on the exit end of all hoses and at all disconnect points to prevent leakage of parathion when the transfer is stopped and the hose is removed or disconnected. If a hose carries parathion concentrate and has not been rinsed in accordance with the instruction in this section, a dry couple shutoff device that will minimize parathion drip to not more than 2 ml. per disconnect must be installed at the disconnect point. If the hose carries diluted-for-use parathion or rinsate solution, a reversing action pump or a similar system that will empty the hose and eliminate dripping of liquid from the end of the hose may be used as an alternative to a shut-off device.

In mixing/loading operation, do not pour this product from its container. Before opening the container, make sure that the container is resting securely on the ground or a sturdy support, with the top (opening) end up and approximately level.

Remove the product from the container only by use of a vacuum-producing pump system connected to a probe system that is listed by the State of California under the State's program establishing criteria for closed-system handling of Toxicity Category I pesticides. Examples of California-listed systems are the Chemprobe[®] Model II system by Cherlor Mfg. Co., Inc.; P. O. Box 2174; Salinas, CA 93902, telephone 408-422-5477; or the Protect-O-Loader Model XM-1 system sold by Protecto Mfg. Co. 20189 Firerock Road, Bend, OR 97701, telephone 503-382-6886. The probe system shall be screwed into the threaded opening in the top of the container to form a watertight connection, using appropriate adapters provided by the probe manufacturer as necessary. The instructions provided by the seller of the probe system shall be followed, except that a removable probe may not be removed from the container until

the container is empty, and the container and probe have been thoroughly rinsed as required by this section.

The closed system must provide for adequate rinsing of any removable probe and of all containers that are not labeled for return to the registrant. Rinsing must be done using a liquid that contains no pesticide. The rinsing system must be capable of spray-rinsing the inner surface of the container. The rinse solution shall be removed from the pesticide container concurrent with the introduction of the rinse medium. The rinse solution shall go into the pesticide mix tank or applicator vehicle via the closed system.

The system shall be rinsed according to the specification of the manufacturer of the probe system, or, in the absence of such specification, by moving at least one half of the container volume through the system. A minimum pressure of 15 psi shall be used for the spray rinse. Parathion containers shall be protected against excessive pressure during the container rinse operation. Measures shall be taken to prevent the spray rinse procedure from causing an increase in pressure on the inside of the container walls of more than 5 psi.

Either the operator of the closed system must have available at the time of operation a complete set of written instructions of proper operation of the system, or the certified applicator must document in writing before an operator uses the closed system that the operator has been adequately trained in the proper operation of the system.

INCIDENT REPORTING

A telephone notification must be made if mixing, loading, or use of a product containing parathion results in inadvertent or unexpected human exposure to the product or illness resulting from exposure to the product, spill of the product, an investigation by Federal, State or local authorities of allegations involving drift of the product, or the deaths of birds or other wildlife. The certified applicator or the owner of the treated land must notify by telephone the Chief, Compliance Branch, Office of Compliance monitoring, U.S. EPA, at (202) 260-3375 within seven days of becoming aware of the incident.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED

BY STORAGE OR DISPOSAL

STORAGE: Store in a dry location away from children, animals, foods, feeds, seeds, and other agricultural chemicals. Keep container closed when not using. Do not allow water into container as this may cause deterioration of product. Handle in accordance with information given under PRECAUTIONARY STATEMENTS. Do not store under conditions where temperature may exceed 120°F or below 45°F. Keep storage area

locked when not in use. In the event of spillage or leakage, soak up material with absorbent clay, and, sawdust, or other absorbent material, while wearing appropriate protective equipment. Scrape up and dispose of in accordance with information given under PESTICIDE DISPOSAL. In case of fire or other emergency, report at once by toll free telephone to 800-424-9300.

DISPOSAL:

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Metal Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

GENERAL INFORMATION

Mix *Parathion 4 EC* in water to form an emulsion spray solution. To make the spray solution, fill the spray tank half full with water, agitate, add the proper amount of *Parathion 4 EC* and then fill the spray tank with water while still agitating. Continue to agitate during use. Aircraft should apply the recommended amount of *Parathion 4 EC* in not less than 1 gallon of water per acre. Always use sufficient water for adequate coverage of the crop foliage.

Where a dosage range is given, use the lower rate on small or young plants or with light insect infestations. Use the higher rate on mature plants or with heavy insect infestations. The amounts given for use are the amounts of *Parathion 4 EC* to apply per acre per application. The hazards and precautions for handling *Parathion 4 EC* are equally applicable to it after dilution with water for spray application.

General Warnings and Limitations: Do not plant any food or feed crop in parathion treated soils other than those with registered parathion uses.

ALFALFA: For *Three-Cornered Alfalfa Hoppers, Alfalfa Caterpillars, and Spittlebugs*, use 1/2 pint per acre. For *Aphids, Alfalfa Weevil Larvae and adult Weevils, Armyworms* up to third instar, *Clover Leaf Weevils, Climbing Cutworms, Webworms, Grasshoppers, Crickets, Spotted Alfalfa Aphids, Leafhoppers, Lygus Bugs, Thrips and Tortoise Beetles*, use 1 to 1 1/2 pints per acre. For *Alfalfa Seed Chalcids* control on alfalfa grown for seed, use 1/2 to 1 1/2 pints per acre. California and Nevada regulations limit the use of this material to not more than 3/4 pint per acre.

For *Clover Head Weevils*, and *Green June Beetles*, use $1\frac{1}{2}$ pints per acre. For *Beet Armyworms* and *Corn Earworms* use $\frac{1}{2}$ to 1 pint per acre. Do not spray alfalfa during bloom period to avoid injury to honey bees. Do not apply within 15 days of harvest, cutting or forage use. Do not apply if the crop or fields in the treatment area are in bloom. Do not reenter treated fields for 3 days.

CORN: For Control of *European Corn Borers*, use 2 pints per acre. Apply the first spray with 75% of the corn plants show shot-hole feeding and follow with two additional sprays at 5 to 7 day intervals. Use sufficient water per acre to provide complete coverage and be certain whorls of plants are well treated. For *Corn Leaf Aphids*, use $\frac{1}{2}$ pint per acre. For *Fall Armyworms*, *Corn Footworm adults*, *Armyworms* up to third instar, *Climbing Cutworms*, *Grasshoppers* and *Japanese Beetles*, use $\frac{3}{4}$ pint per acre. To control *Stink Bugs* and *Spider Mites*, use 2 pints per acre. To control *Corn Earworms*, use $\frac{3}{4}$ pint per acre and apply to silks as soon as they appear. Make 3 to 4 applications at 2 to 3 day intervals as infestation warrants. Re-apply immediately after rain. To control *Chinch Bugs*, use $1\frac{1}{2}$ pint per acre. Do not apply within 12 days of harvest, cutting or forage use. Do not reenter treated fields for 6 days.

CORN (Sweet): To control *Fall Armyworms*, *Aphids*, and *Silk Flies*, use $\frac{1}{2}$ pint per acre. To control *Sap Beetles* and *Spider Mites*, use 1 pint per acre. To control *Corn Earworm*, apply to silks as soon as they appear. Make 3 to 4 applications at 2 to 3 day intervals as infestation warrants. Reapply immediately after rain. To control *Chinch Bugs*, use $1\frac{1}{2}$ pints per acre. If crop is intended for canning, consult your cannery fieldmen prior to application. Do not apply within 12 days of harvest. Do not reenter treated fields for 6 days.

COTTON: To control *Aphids*, *Mites*, *Cotton Leafworms*, *Cotton Fleahoppers*, *Garden Webworms* and *Thrips*, use $\frac{1}{2}$ pint per acre. For *Cabbage Loopers*, use $\frac{3}{4}$ to 1 pint per acre. For *Boll Weevils* and *Stink Bugs*, use 1 to $1\frac{1}{2}$ pint per acre. For *Salt-Marsh Caterpillars*, use 1 to 2 pints per acre. For *Bollworms*, *Cotton Leaf Perforators*, *Lygus Bugs*, *False Chinch Bugs*, *Serpentine Leaf Miners* and *Southern Garden Leafhoppers*, use 2 pints per acre. Make first application when insects appear and repeat at 7 day intervals if required. If desired, this formulation may be combined with other insecticides in a complete cotton spray program. Do not feed cotton trash to dairy animals or animals being finished for slaughter within 15 days of application. Do not harvest within 7 days after application. Do not reenter treated fields for 3 days.

SMALL GRAINS (Wheat, barley): To control *Armyworms* up to third instar, *Aphids* (*Greenbugs*) and *Winter Grain Mites*, use $1\frac{1}{2}$ pint per acre. For *Thrips*, use $\frac{1}{2}$ to $\frac{3}{4}$ pint per acre. For *Say's Plant Bugs*, use $\frac{3}{8}$ pint per acre. For *Black Grass Bugs*, *Stink Bugs*, *White Spider Mites*, *Leafhoppers*, *Climbing Cutworms*, *Grasshoppers*, and *Brown Wheat Mites*, use $1\frac{1}{2}$ pints per acre. For *Chinch Bugs*, *False*

Chinch Bugs and *Banke Grass Mites*, use $1\frac{1}{2}$ pints per acre. Do not apply within 15 days of harvest, cutting or forage. Do not reenter treated fields for 3 days.

SORGHUM: To control *Sorghum Midges*, apply at a rate of 2 pints per acre. Make 2 applications 3 to 5 days apart when approximately 90% of the heads have completely emerged from the boot or not later than start of blooming. For *Aphids*, (*Greenbugs*) and *Mites*, use $\frac{1}{2}$ pint per acre. For *Sorghum Webworms*, *Fall Armyworms*, *Armyworms* up to third instar and *Corn Earworms*, use $\frac{1}{2}$ to 1 pint per acre. Leaf injury may occur on some hybrid varieties of sorghum. Spray a few rows a week or so before booting to test effects on plants. Do not apply within 12 days of harvest, cutting or forage. Do not reenter treated fields for 3 days.

SOYBEANS: To control *Webworms*, use $\frac{1}{2}$ pint per acre. To control *Velvet Bean Caterpillars*, *Green Cloverworms*, *Two-Spotted Mites* and *Stink Bugs*, use 1 pint per acre. To control *Corn Earworms* and *Fall Armyworms*, use 1 to $1\frac{3}{5}$ pint per acre. Do not apply within 20 days of harvest, cutting or forage use. Do not reenter treated fields for 3 days.

SUNFLOWERS: To control *Sunflower Moth*, use 1 pint per acre on a schedule of 2 to 3 applications at 5 day intervals. Hybrid sunflowers completely bloom in 12 to 15 days, thus the initial application should be made when 10 - 20% of the plants have begun to flower and moths and young larvae are present. Do not apply later than 30 days before harvest. Do not reenter treated fields for 3 days.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.

Cheminova Agro A/S

P. O. Box 9

DK-7620

Lemvig, Denmark

Telephone: (+45)97 83 41 00